Recreational Use Attainability Analysis

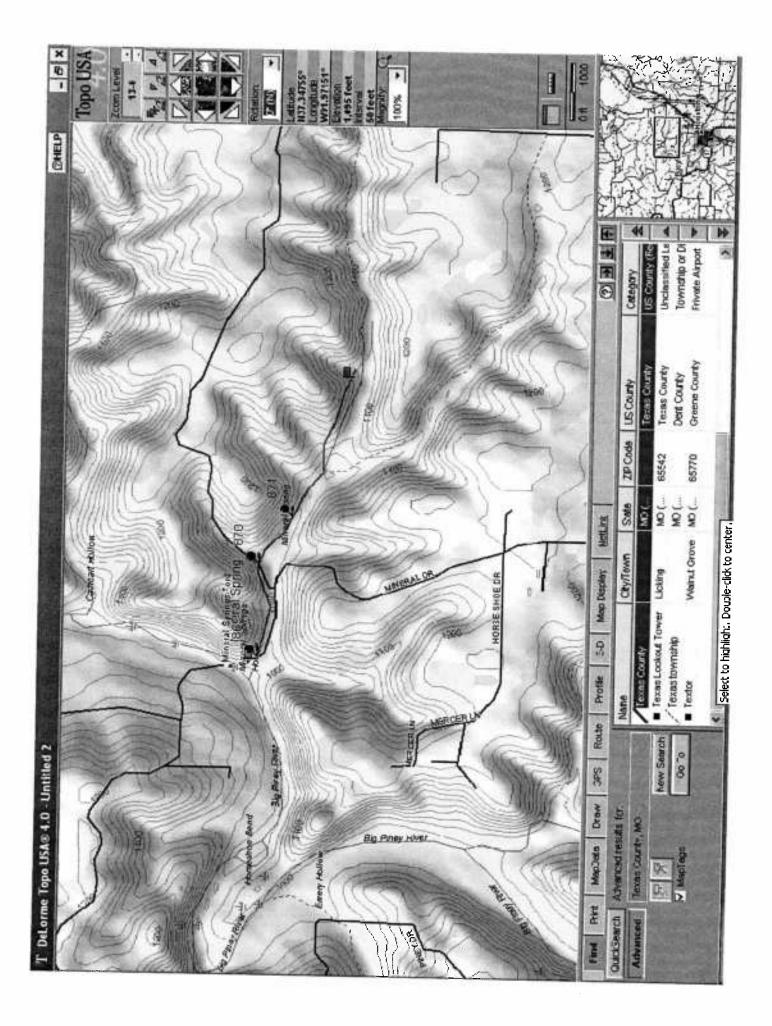
Cover Sheet

Water Body Name: Mineral Spring Hol	low
Water Body Identification #: 3617	
Completed UAA Checklist: Pre-Field Preparatory Data Sheet Maps with actual survey sites marked Data Sheet A Data Sheet B – 3 of 3 pages for each site Number of Sites:3 Data Sheet C (if applicable) Number of Interviews: Photographs Quantities Upstream3 Downstream3 Other Other Other Pre-Field Preparatory Data Sheet Maps with actual survey sites marked Maps with actual survey sites marked Data Sheet A Data Sheet B – 3 of 3 pages for each site Number of Sites:3 Data Sheet C (if applicable) Number of Interviews:	
I, the undersigned, hereby affirm to the best of my is true and accurate.	knowledge, that all information reported in this UAA
Printed Name: John Roberts Organization: Tetra tech, Inc	Date:07-28-06 Telephone #: <u>410-354-8993</u> Position:SCIENTIST

<u>Pre-Field Preparatory Data Sheet</u> <u>for Recreational Use Stream Surveys</u>

8-digit HUC: 10290202 Missouri Water Body Identification (WBID) #: 3617 County: Texas Upstream Legal Description: 871 37.36264, -91.97011 Downstream Legal Description 869 37.36243 -91.96914 Discharger Facility Name(s): Discharger Permit Number(s): Weather Conditions for Past 7 days: Hot Clear	Water Body Name: (from USGS 7.5' quad) Mineral Spring Hollow	·
Upstream Legal Description: 871 37.36264, -91.97011 Downstream Legal Description 37.36244, -91.97011 Discharger Facility Name(s): Discharger Permit Number(s): Weather Conditions for Past 7 days:	8-digit HUC: 10290202 Missouri Water Body Identifi	cation (WRID) #: 74.17
Downstream Legal Description 37 30243 - 91.96914 Discharger Facility Name(s): Discharger Permit Number(s): Weather Conditions for Past 7 days:	County: Texas	(WBID)#. 10(1
Downstream Legal Description 37, 36243 - 91, 96914 Discharger Facility Name(s): Discharger Permit Number(s): Weather Conditions for Past 7 days:	Upstream Legal Description: 871 37.36264 -9197011	
Discharger Facility Name(s): Discharger Permit Number(s): Weather Conditions for Past 7 days:	Downstream Legal Description 860) 37 36243 - 91 966	2 14
Weather Conditions for Past 7 days:	Discharger Facility Name(s):	11-
Weather Conditions for Past 7 days: Hot Clear	Discharger Permit Number(s):	
	Weather Conditions for Past 7 days: Ho+ Clear	

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.



WBID# 3617

Date: 7/17/2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name: Mineral Spring Hollow

WBID #: 3617

Upstream Coordinates:
(WGS 84, ddd.ddddd) (871) 37.36264, -91.97011

Downstream Coordinates: 869
(WGS 84, ddd.ddddd) (871) 37.36243, -91.96914

Current Weather Conditions: Clear Hot

Number of Sites Evaluated: 3

Name(s) of Surveyor(s):

Chad Barbour John Roberts

WBID #_3(17 Site # 869

Date: 07 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd):	37.36243		Arrival Time:	
Longitude (ddd.dddd) Photo Ids: Unstream	. 041 41414 4		1005	
Photo Ids: Upstream	: D(12	Downstream: 0663		
_			Other:	
	0669	- PARK 0665-AC	(67)	
rrative Description	of Location (D.			
MINGRAL JARDNEM	S CONSERVATOR	escribe access point to stream, NAMEA - MINGRAL DA	nearby roads, landmarks, etc	:.)
		THE MENTAL DE	IVE ROAD CAOSSING	
rrounding Condition	Ons*: (Mark all that	mromata a d		
ns of interest.)	(White an that	promote or impede recreationa	l uses. Attach photos of evid	lence or unusual
☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands		T
Boating accesses	State parks	☐ National forests	☐ Urban areas	☐ Campgrounds
☐ No trespass sign	☐ Fence	☐ Steep slopes	☐ Nature trails	☐ Stairs/walkway
		□ Steep stopes	Other: Fores 7- Se	E PHOTOS 0662.066
man Uses Observed	i*:			
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Water skiing
☐ Hunting	☐ Trapping	D. E. J.		Rafting
Describe: (include numb	per of individuals recr	eating, frequency of use, photo	None of the above	Other:
		, p.1000	documentation of evidence	of recreational uses, etc
ence of Human Us	e*:			
Roads	☐ Foot paths/print	s Dock/platform	☐ Livestock Watering	
Rope swings	☐ Camping Sites	☐ Fire pit/ring	□ NPDES Discharge	□ RV / ATV Tracks
Other:			TAPDES Discharge	☐ Fishing Tackle
ces of Pollution: (e.g	g., trash dumping, tire	s, drainages, discharges, etc.)		

26:07-16-06 John Jole to

······································	16 / 2006				4
	Dat	a Sheet B - Site Ch	aracterization – 2	of 3	
eam Mor Upstream	phology: View Physical Din	nensions: 0.17, 0.11			
	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (n
□ Riffle					maz Deptii (ii
□ Run					
□ Pool	8	4.2	8	<u></u>	
			5	1 0.16	0.17
☑ Flow	Present? Yes	□ No	Velocity (ft/sec):	Im=55	0.17
		□ No Dimensions: 0.45, Width (m)			
	m View Physical Distance from	Dimensions: 0.95,	0.98, 0.941	In=55	
Downstrea □ Riffle □ Run	m View Physical Distance from	Dimensions: 0.95,	0.98, 0.941	In=55	Max Depth (m
Oownstrea □ Riffle	m View Physical Distance from	Dimensions: 0.95,	0.98, 0.941	Avg. Depth (m)	Max Depth (m
Downstrea □ Riffle □ Run	Distance from access point (m)	Dimensions: 0.45, Width (m)	0.18, 0.14m Length (m)	In=55	
Oownstrea □ Riffle □ Run □ Pool □ Flow strate*: (**	Distance from access point (m)	Dimensions: 0.45, Width (m)	০.৭৪, ০.৭৭ _{^^} Length (m)	Avg. Depth (m)	Max Depth (m

Αq	uatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.)
	NONE (Thomas of vegetation of algai growth at the assessment site.)
-	
L	
W 7	

Water Characteristics*: (Mark all that apply.)

Odor:					
	☐ Sewage	☐ Musky	☐ Chemical	M None	Other:
Color:	☑ Clear	☐ Green	ПС		□ Other.
Bottom Deposit:			☐ Gray	☐ Milky	☐ Other:
Bottom Deposit:	☐ Sludge	☐ Solids	☑ Fine sediments	□ None	M Other Co.
Surface Deposit:	□ Oil	ПС			Other: SAND
		☐ Scum	☐ Foam	□ None	☐ Other:

^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID	#	 3	617	 Site	#	8	6	9	
D4	_	 ,							

Date: 07/16/2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique loca conditions, problems in measuring, site relocation).	i
NONE	

WBID #	4_3617	_Site#	869
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Date: 07 / 16 / 2006

NONE

Field Data Sheets for Recreational Use Stream Surveys

	w long have you	ı lived here?		
/1	rsonally used that ase check ALL	nis water body for r that apply:	ecreation since 1975?	⊓Yes □No
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:
(G = 1 - 5 time	i 5 times per year s per year 1 time per year – p	lease describe:	
3. Have you obs	erved others us se check ALL t	ing this water body	for recreation since 1	975? □ Yes □ No
, [I THE THE T			
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Swimming ☐ Wind surfing	☐ Skin diving ☐ Kayaking	☐ SCUBA diving ☐ Boating	☐ Wading	
☐ Swimming ☐ Wind surfing ☐ Hunting	☐ Skin diving ☐ Kayaking ☐ Trapping	☐ SCUBA diving ☐ Boating ☐ Fishing	☐ Wading ☐ None of the above	☐ Water skiing
☐ Swimming ☐ Wind surfing ☐ Hunting	☐ Skin diving ☐ Kayaking ☐ Trapping have you obser More than 1 – 5 times	☐ SCUBA diving ☐ Boating ☐ Fishing ved it being used for times per year	☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting
☐ Swimming ☐ Wind surfing ☐ Hunting How often G G G	☐ Skin diving ☐ Kayaking ☐ Trapping have you obsert More than 1 - 5 times Less than 1	☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting
☐ Swimming ☐ Wind surfing ☐ Hunting How often G G	☐ Skin diving ☐ Kayaking ☐ Trapping have you obsert More than 1 - 5 times Less than 1	☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting
☐ Swimming ☐ Wind surfing ☐ Hunting How often G G G	☐ Skin diving ☐ Kayaking ☐ Trapping have you obsert More than 1 - 5 times Less than 1	☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting

WBID # 3617 Site # 870

Date: 07/16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd):			Arrival Time:	
Longitude (ddd.dddd):		ALC: 20,3 FT.	102	50
Photo Ids: Upstream:	0666	Downstream: 0667	Other:	
rrative Description	of I continue			
	F A POAD DINEAL DAIVE	escribe access point to stream, r	nearby roads, landmarks, etc られないいら	.)
rounding Condition	ons*: (Mark all that	promote or impede recreational	uses. Attach photos of evid	ance or unit
			- Photos of CVId	chee of unusual
☐ City/county parks	□ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	☐ Fence	☐ Steep slopes	Other: Fonest se	EE PHO 705 0666.01
nan Uses Observed	l*:			1 10 100 0 86 8 2 0
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Water skiing
☐ Hunting	☐ Trapping	□ Pickin -	~	Rafting
Describe: (include numb	er of individuals reci	reating, frequency of use, photo	-documentation of evidence	of recreational uses, ato
				the second disco, etc.
ence of Human Use	e*:			
Roads	☐ Foot paths/print	s Dock/platform		T
Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ Livestock Watering	□ RV / ATV Tracks
Other:		in Fire pivring	☐ NPDES Discharge	☐ Fishing Tackle
· · · · · · · · · · · · · · · · · · ·				
ces of Pollution: (e.g	g., trash dumping, tir	es, drainages, discharges, etc.)		

July Jan Jan 1

	16 / 2006				4
	Dat	a Sheet B - Site Char	acterization – 2 of	T 3	
ream Mor Upstream	phology: View Physical Dir	nensions: 0.24, 0.24			
	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m
□ Riffle					Depth (III
□ Run					
☑ Pool	50	1.4	25	0.24	
□ Flow	Present?	☑ No	Velocity (ft/sec):	U. a7	0,24
Downstrae	m View Dhant 1 r				
DOWNSHEA	Distance from	Dimensions: 0.19, 0.1	20, 8.15~		
		Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
	access point (m)				
□ Riffle	access point (m)	(")			
☐ Riffle	access point (m)				
	access point (m)	0.9	20	() 62	2.22
□ Run		0.9	20 relocity (ft/sec):	0.53	0.20
□ Run □ Pool □ Flow	⊋০ Present? ☑ Yes	0.9 □ No V		0.63 Im=85	0.29
□ Run □ Pool □ Flow Ostrate*: (Present? Yes	0.9 □ No V	elocity (ft/sec):		0.20

☐ Chemical

☐ Gray

M None

☐ Other:

Water Characteristics*: (Mark all that apply.)

☐ Sewage

M Clear

☐ Musky

☐ Green

Odor:

Color:

[☐] Milky ☐ Other: Bottom Deposit: □ Sludge ☐ Solids ☐ Fine sediments None Other: Surface Deposit: □ Oil ☐ Scum None ☐ Foam ☐ Other: *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID # 3617 Site # 370

Date: 07/ 16 / 2006

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).
SITE RELOCATED TO MOME ACCESSIBLE AAGA.

WBID #_ 3617 __ Site # __ > 70

Date: 07 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Interviews

(Make additional copies as necessary for multiple interviews)

	T TOTAL TELE	that apply:	ecreation since 1975?	☐ Yes ☐ No
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:
. Have you obs	served others us	1 time per year – p	lease describe:	975? □ Yes □ No
☐ Swimming	se check ALL to	Tat appry:		773. 1 1C3 1100
		I I I I I A division ~	[] mr 1 ·	
		☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Wind surfing ☐ Hunting	☐ Kayaking ☐ Trapping	☐ Boating ☐ Fishing	☐ Wading ☐ None of the above	
☐ Wind surfing ☐ Hunting	☐ Kayaking ☐ Trapping have you obserted More than ☐ 1 - 5 times	☐ Boating ☐ Fishing rved it being used for times per year	☐ Wading ☐ None of the above for recreation?	☐ Rafting
☐ Wind surfing ☐ Hunting How often	☐ Kayaking ☐ Trapping have you obserted G More than 1 - 5 times Less than 1	☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Wading ☐ None of the above for recreation?	☐ Rafting
☐ Wind surfing ☐ Hunting How often	☐ Kayaking ☐ Trapping have you obserted G More than 1 - 5 times Less than 1	☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Wading ☐ None of the above for recreation?	☐ Rafting
☐ Wind surfing ☐ Hunting How often	☐ Kayaking ☐ Trapping have you obserted G More than 1 - 5 times Less than 1	☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Wading ☐ None of the above for recreation?	☐ Rafting

WBID # 3617 Site # 371

Date: 07/16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd):	37.36 264		Arrival Time:	
Longitude (ddd.dddd)): 691 97011	1 10 7	1045	
Photo Ids: Upstream	n: 0668	Downstream: 0669	Other:	
		066 (Other.	
rrative Description	n of Location: (De	escribe access point to stream,	nearby roads, landmarks, etc	· (.
100m DOWNSTRORM	OF MINCRAL D	MINE CHUSIENG		
rounding Conditi	one*• (3.6. 3. 31.4			
s of interest.)	ons": (Mark all that	promote or impede recreationa	l uses. Attach photos of evid	ence or unusual
☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	To compare
☑ Boating accesses	State parks	☐ National forests	☐ Nature trails	Campgrounds
☐ No trespass sign	☐ Fence	☐ Steep slopes		☐ Stairs/walkway
man Uses Ol			Other: Fanes 7- se	G PHO705 3663 206
nan Uses Observe				
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
Hunting	☐ Trapping	☐ Fishing	None of the above	
seserioe. (merade num	ber of individuals reci	eating, frequency of use, photo	o-documentation of evidence	of recreational uses, et
		,		
ence of Human Us	se*:			
Roads	☐ Foot paths/print	s	☐ Livestock Watering	
Rope swings	☐ Camping Sites	☐ Fire pit/ring		□ RV / ATV Tracks
Other: APPROX. 1	(Da 50 0 200		☐ NPDES Discharge	☐ Fishing Tackle
ces of Pollution: (e	.g., trash dumping, tire	es, drainages, discharges, etc.)		
OBVJOUS SOUM				

OL:07-16-06 Job Jalat

	16 / 2006				4
	Data	Sheet B - Site Ch	aracterization – 2	of 3	
eam Mor Upstream	phology: View Physical Dim	ensions: 10 12	1.03-		
~	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (1
□ Riffle					
Run					
 Pool	20	7.5	10	1 11	
□ Flow	Present?	☑ No	Velocity (ft/sec):		1.3
\ - 4					
Downstrea	m View Physical D	imensions: 0.65	,0.65,0.67~		
Downstrea	Distance from access point (m)	imensions: 0.65 Width (m)	Length (m)	Avg. Depth (m)	Max Depth (n
Oownstrea □ Riffle	Distance If OIII			Avg. Depth (m)	Max Depth (n
	Distance If OIII			Avg. Depth (m)	Max Depth (m
□ Riffle	Distance If OIII	Width (m)	Length (m)		Max Depth (n
□ Riffle	access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (n
□ Riffle □ Run □ Pool □ Flow	access point (m) 20 Present?	Width (m) 7.5 ☑ No	Length (m)		
□ Riffle □ Run ☑ Pool □ Flow strate*: (access point (m)	Width (m) 7.5 ☑ No	Length (m)		

stics*: (Mark a	ll that apply.)			
		Chaminal		
		☐ Chemical		Other:
□ Clear	☐ Green	☐ Gray	Milky	Other: BAOUN
☐ Sludge	☐ Solids	M Fine sediments		
[] ():1		— Title sediments	None	☐ Other:
LI UII	□ Scum	☐ Foam	☑ None	☐ Other:
	☐ Sewage	☐ Clear ☐ Green ☐ Sludge ☐ Solids	□ Sewage □ Musky □ Chemical □ Clear □ Green □ Gray □ Sludge □ Solids ☑ Fine sediments	☐ Sewage ☐ Musky ☐ Chemical ☑ None ☐ Clear ☐ Green ☐ Gray ☑ Milky ☐ Sludge ☐ Solids ☑ Fine sediments ☐ None

^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID # 3617 Site # 871

Date: 07/16 / 2006

Data Sheet B - Site Characterization - 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation). SATE MOVED TO MORE ACCESSIBLE AREA.

WBID #_	3617	Site #	871	
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Date: 07 / 16 / 2016

NONÉ

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Interviews

2. Have you pe	w long have you rsonally used th ase check ALL	is water body for r	recreation since 1975?	□ Yes □ No
☐ Swimming	☐ Skin diving	That appry.		
☐ Wind surfing	☐ Kayaking	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Hunting	☐ Trapping	☐ Boating ☐ Fishing	☐ Wading ☐ None of the above	☐ Rafting
	G = 1 - 5 times	5 times per year sper year	lease describe:	
3. Have you obs If so, plea ☐ Swimming	erved others usi se check ALL tl	ng this water body nat apply: SCUBA diving	for recreation since 1	T
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Water skiing
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Rafting ☐ Other:
How often G G G	1 - 5 times	ved it being used for times per year per year time per year – ple		
Additional Cor	mments:			
Contact Informati	on (if willing to	provide):		

WBID# 3617



Site# 869 Photo ID# 0662, Upstream



Site# 869 Photo ID# 0664, Park



Site# 869 Photo ID# 0663, Downstream



Site# 869 Photo ID# 0665, Access

WBID# 3617



Site# 870 Photo ID# 0666, Upstream



Site# 871 Photo ID# 0668, Upstream



Site# 870 Photo ID# 0667, Downstream



Site# 871 Photo ID# 0669, Downstream